TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-31-07**	**Date: 08-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.	
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.	
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	31-05-17	
Sample ID No	:	2017-05-31-07/01	
Sample Type	:	Birla Super cement 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	01-06-17	

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2

Note:
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Prepared by
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-31-07** **Date: 02-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-05-17
Sample ID No	:	2017-05-31-07/01
Sample Type	:	Birla Super cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg, Min)	296.3	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-31-07	**Date:3-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP,	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.	
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	31-05-17	
Sample ID No	:	2017-05-31-07/02(b)	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)	
		IS: 2386 :1963(Part - 1,3,4) RA2011	
		IS 2386 Part 1: Particle Size and Shape	
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
		IS 2386 Part 4: Mechanical Properties	
Date of test	:	31-05-17	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	413	413	8.26	91.74	90-100
3	10 mm	1957	2370	47.4	52.60	25-55
4	4.75 mm	2368	4738	94.76	5.24	0-10
5	Pan	262	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-31-07** **Date:3-06-2017**

Sample ID No : 2017-05-31-07/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.56	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-31-07 **Date: 03-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP,
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	31-05-17
Sample ID No	:	2017-05-31-07/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	31-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1348	1348	9.0	91.0	90-100
3	20 mm	4738	6086	40.6	59.4	30-70
4	10 mm	5374	11460	76.4	23.6	10-35
5	4.75 mm	2836	14296	95.3	4.7	0-5
6	Pan	704	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-31-07** **Date: 03-06-2017**

Sample ID No : 2017-05-31-07/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.22	_

Note:

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Prepared by
Harshitha

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2017-05-31-07 **Date: 02-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-05-17
Sample ID No	:	2017-05-31-07/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	31-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	148	183	18.3	81.7	60-95	75-100	85-100	95-100
4	1.18 mm	173	356	35.6	64.4	30-70	55-90	75-100	90-100
5	600 micron	269	625	62.5	37.5	15-34	35-59	60-79	80-100
6	300 micron	237	862	86.2	13.8	5-20	8-30	12-40	15-50
7	150 micron	72	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-31-07**

Sample ID No : 2017-05-31-07/03

Date: 02-06-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.66	–
2	Specific Gravity	2.61	–
3	Material finer than 75 micron(%)	5.50	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-06-12-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	13/06/2017

Date: 16-06-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.18	100.81	1.760	4438	78.1	17.6	16.4	20.5
2	Cover Slab-2	75.3	100.29	1.820	4452	79.3	17.8	16.6	20.7
3	Cover Slab-3	75.46	100.38	1.868	4471	81.5	18.2	17.0	21.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-06-12-01 **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Emergency works in Ward no.2 of Yelahanka Sub division.
Agency	:	Sri.Girish.M, No.993, Old middle school road, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01/02
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	13/06/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	200.48	3.106	4477	83.7	18.7	17.4	21.7
2	Cover Slab-2	75.49	200.52	2.192	4475	82.9	18.5	17.2	21.5
3	Cover Slab-3	75.50	200.32	3.118	4476	83.5	18.7	17.3	21.7

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